



IFW

635.45890X00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: M. MORBIDELLI, et al.

Serial No.: 10/567,445

Filed: February 7, 2006

For: ROTATING STIRRING DEVICE WITH SUBSTANTIALLY NARROW DISTRIBUTION OF ENERGY DISSIPATION RATE

International Application: PCT/CH2004/000494

International Filing Date: August 6, 2004

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97 & 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

June 23, 2006

Sir:

Pursuant to the duty of disclosure, applicants cite the documents listed on the attached Form PTO-1449. Copies of the cited documents are enclosed. These documents are referred to on pages 18 and 19 of the substitute specification.

This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

Each of the documents listed on the attached form equivalent to Form PTO-1449 is in the English language.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the

filings of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus, LLP, Deposit Account No. 01-2135 (Case: 635.45890X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP


Ronald J. Shore
Registration No. 28,577

RJS/kmh
(703) 312-6600
Attachments



Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DKT. NO. 635.45890X00	SERIAL NO. 10/567,445
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT M. MORBIDELLI, et al.		FILING DATE February 7, 2006	GROUP

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
AM							
AN							
AO							
AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	"Advances in Chemical Engineering," vol. 17, pp. 5-8, Academic Press (1992).
AV	Zhu, X., and Vigil, R.D., "Banded liquid-liquid Taylor-Couette-Poiseuille flow," AIChE Journal (2001), 47:1932-1940.
AW	Haut, B., Ben Amor, H., Coulon, L., Jacquet, A., and Halloin, V., "Hydrodynamics and mass transfer in a Couette-Taylor bioreactor for the culture of animal cells," Chem. Eng. Sci. (2003), 58:777-784.
AX	Drozdov, S.M., "A numerical investigation of a modified Couette-Taylor apparatus with application to industrial mixing," Theoret. Comput. Fluid Dynamics (2002), 16:17-18.
AY	Resende, M.M., Tardioli, P.W., Fernandez, V.M., Ferreira, A.L.O., Giordano, R.L.C., and Giordano, R.C., "Distribution of suspended particles in a Taylor-Poiseuille vortex flow reactor," Chem. Eng. Sci. (2001), 56: 755-761
AZ	Mavros, P., Mann, R., Vlaey, S.D., and Bertrand, J., "Experimental visualization and CFD simulation of flow patterns induced by a novel energy-saving dual-configuration impeller in stirred vessels," Trans IchemE (2001), 79:857-866.

Examiner	Date Considered



Form PTO-1449		U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DKT. NO. 635.45890X00	SERIAL NO. 10/567,445
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT M. MORBIDELLI, et al.			
		FILING DATE February 7, 2006		GROUP	

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
AM							
AN							
AO							
AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	Campolo, M., Sbrizzai, F., and Soldati, A., "Time-dependent flow structures and Lagrangian mixing in Rushton-impeller baffled-tank reactor," Chem. Eng. Sci. (2003), 58:1615-1629.
AV	Wu, H., and Patterson, G.K., "Laser-Doppler measurements of turbulent-flow parameters in a stirred mixer," Chem. Eng. Sci. (1989), 44:2207-2221.
AW	
AX	
AY	
AZ	